

Page 1

March-19-13 10:52:38 AM

Item ID: 646.4001

**Accept**

**\*N900040100\***

Setup Start \*NS1\*

**Revision ID:**

Stop \*NS2\*

**Item Name:** AS350 Cable Cutter

**Start Date:** 3/19/13      **Start Qty:** 1.00      **\*1\***

**Cust Item ID:**

**Required Date:** 4/02/13      **Req'd Qty:** 1.00      **\* 1 \***

**Customer:**

**Reference:**

Approvals:	Process Plan: <u>MLS</u>	Date: <u>1303-19</u>	Tooling: _____	Date: _____	Run	Start	*NR1*
	QC: _____	Date: _____	SPC (Y/N): _____	Date: _____		Stop	*NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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<b>Draw Nbr</b>	<b>Revision Nbr</b>
-----------------	---------------------

646.4000

A

100

0.00

**\*100\***

DOCUMENT CONTROL

DC

0.00

Document Control

## Memo

Photocopy bluefile &amp; type labels per PPP 646.4001

110

## Pick Kit

0.00

**\*110\***

## Packaging

## Memo

0.00

## Packaging

120

QC4- 100% Inspect kits for completeness

0.00

**\*120\***

QC

## Memo

0.00

## Quality Control

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											
<b>FAULT CATEGORY</b>											
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other		

# Work Order ID 98641

March-19-13 10:52:38 AM

**\*98641\***

Page 2

Item ID: 646.4001

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: AS350 Cable Cutter

Start Date: 3/19/13 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 4/02/13 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 <b>*130*</b>	Packaging	0.00				1	8	13-4-16	
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: _____								
140 <b>*140*</b>	QC21- Final Inspection - Work Order Release	0.00							13/4/17
QC	Memo	0.00							
Quality Control									

13-4-16

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

☐ Ovalized  
☐ Over/Under tolerance  
☐ Part Incorrect  
☐ Part Lost/Missing  
☐ Part Moved  
☐ Positioned Wrong  
☐ Power Loss/Surge

☐ Pressure/Forced  
☐ Temperature/Cure  
☐ Weld  
☐ Wrong Stock Pulled  
☐ Other

# Picklist Print

March-19-13 10:52:41 AM

Page 1

Work Order ID: 98641

\*98641\*

Parent Item: 646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646 3301* Upper Cutter Assembly	SMD	Manufactured	No				Each	0.0000	**	(1) 120083			
646.3001 *646 3001* Lower Cutter Assembly	SMD	Manufactured	No				Each	0.0000	**	(1) 120083			
646.2910 *646 2910* Deflector	SMD	Manufactured	No				Each	0.0000	**	(1) 120083			
646.3810 *646 3810* Bracket	SMD	Manufactured	No				Each	0.0000	**	(2) 120083			
646.3510 *646 3510* Strut	SMD	Manufactured	No				Each	0.0000	**	(1) 120083			
646.3511 *646 3511* Strut	SMD	Manufactured	No				Each	0.0000	**	(1) 120083			
646.3512 *646 3512* Strut	SMD	Manufactured	No				Each	0.0000	**	(1) 120083			
646.3513 *646 3513* Strut	SMD	Manufactured	No				Each	0.0000	**	(1) 120083			

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											
<b>FAULT CATEGORY</b>											
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other		

# Picklist Print

March-19-13 10:52:41 AM

Work Order ID: 98641

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

\*98641\*

\*646 4001\*

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

10,454.00

\*NAS1149F0332P\*

WASHER

\*\*



20



S/P

Location

Loc Qty

Loc Code

GA

182

122063

182

ST294

269

122063

269

ST295

3

123352

3

st510

10000

123900

10000

123900

MS21042L3

Purchased

No

Each

6,289.000

\*MS21042L3\*

Nut

\*\*



20

13-03-22

S/P

Location

Loc Qty

Loc Code

FP001

3

122141

3

GA

212

122452

212

ST314

268

117885

32

119017

55

119075

138

123265

43

ST506

5806

123900

1806

124291

4000

123900



NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Skid-tube <input type="checkbox"/></td> <td style="width: 25%;">Crosstube <input type="checkbox"/></td> <td style="width: 25%;">Water Jet <input type="checkbox"/></td> <td style="width: 25%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other



# Picklist Print

March-19-13 10:52:41 AM

Page 3

Work Order ID: 98641

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

\*98641\*

\*646 4001\*

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3110

Manufactured No

Each 10.0000

**\*646 3110\***

Channel

Sm

Location

Loc Qty

Loc Code

ST139B

10

92768

10

\*\*

10

20

10

646.3710

Manufactured No

Each 0.0000

**\*646 3710\***

Doubler

Sm

646.3210

Manufactured No

Each 0.0000

**\*646 3210\***

Support

Sm

646.3713

Manufactured No

Each 0.0000

**\*646 3713\***

Gusset

Sm

MS24694-S51

Purchased No

Each 196.0000

**\*MS24694-S51\***

Screw

Sm

Location

Loc Qty

Loc Code

ST303

196

116805

1

123741

195

\*\*

10

20

10

AN3-13A

Purchased No

Each 106.0000

**\*AN3-13A\***

Bolt

Sm

Location

Loc Qty

Loc Code

ST351

56

104746

26

120910

30

ST512

50

123759

50

\*\*

10

20

13-03-22

10

104746

March-19-13 10:52:41 AM

Shop Packet Print

Page 3

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											
<b>FAULT CATEGORY</b>											
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other		

# Picklist Print

March-19-13 10:52:41 AM

Page 4

Work Order ID: 98641

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

\*98641\*

\*646 4001\*

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

Each 651.0000

**\*AN3-4A\***  
Bolt

\*\*

## Location

## Loc Qty

## Loc Code

ST350	318	
120308	80	
122814	38	
124858	200	
ST512	333	
120770	200	
123900	133	

10

10

10

CR3213-5-3 Purchased No

Each 300.0000

**\*CR3213-5-3\***  
Cherry Rivet

\*\*

## Location

## Loc Qty

## Loc Code

ST329	300	
123785	300	

123900  
14

10

10

MS20470AD5-5.5 Purchased No

Each 813.0000

**\*MS20470AD5-5.5\***  
Rivet

\*\*

## Location

## Loc Qty

## Loc Code

ST336	813	
123425	813	

123648  
8

10

13-03-22

10

646.3711 Manufactured No

Each 0.0000

**\*646 3711\***  
Clip

\*\*

646.3712 Manufactured No

Each 0.0000

**\*646 3712\***  
Clip

\*\*

123425  
1

1125083

1

1120083

10

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabelled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

# Picklist Print

March-19-13 10:52:41 AM

Page 5

Work Order ID: 98641

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

\*98641\*

\*646 4001\*

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3811 Manufactured No

Each 0.0000

\*646 3811\*

Radius Block

AN3-6A Purchased No

Each 483.0000

\*AN3-6A\*

Bolt

Location

Loc Qty

Loc Code

ST350 300

124296 300

ST351 61

117441 34

121166 13

122993 10

123831 4

ST512 122

122814 122

MS24694-S55 Purchased No

Each 119.0000

\*MS24694-S55\*

Screw

Location

Loc Qty

Loc Code

ST303 119

123758 1

124296 118

646.3610 Manufactured No

Each 0.0000

\*646 3610\*

Filler

646.3714 Manufactured No

Each 0.0000

\*646 3714\*

Gusset

\*\*

\*\*

\*\*

\*\*

\*\*

March-19-13 10:52:41 AM

Shop Packet Print

Page 5

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

# Picklist Print

March-19-13 10:52:41 AM

Work Order ID: 98641

\*98641\*

Parent Item: 646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-6

Purchased No

Each 1.836.000

\*MS20470AD5-6\*

Rivet

SMP

\*\*

81

JB

8

Location

Loc Qty

Loc Code

ST336

1836

105433

946

124089

890

105433

646.3812

Manufactured No

Each 0.0000

\*646 3812\*

Gusset Bracket

SMP

\*\*

2

1200F3

8

AN3-3A

Purchased No

Each 408.0000

\*AN3-3A\*

Bolt

SMP

\*\*

4

JB

8

Location

Loc Qty

Loc Code

ST350

408

123831

108

124221

200

124552

100

123831

646.3813

Manufactured No

Each 10.0000

\*646 3813\*

Strut Bracket

SMPB

\*\*

1

JB

13-03-20

8

Location

Loc Qty

Loc Code

ST139d

10

93252

10

93252

MS20470AD5-6 M 123400 30 8  
SMP

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY				
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other



# Picklist Print

March-19-13 10:52:42 AM

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Work Order ID: 98641

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

\*98641\*

\*646 4001\*

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

Each

625.0000

\*MS21047-3\*  
NUT PLATE

\*\*

Location

Loc Qty

Loc Code

ST316

625

123268

75

123301

50

123522

500

CCR264SS3-02

Purchased

No

Each

1,100.000

\*CCR264SS3-02\*  
Rivet, Cherry

\*\*

Location

Loc Qty

Loc Code

ST327

1100

106578

100

123785

600

124231

200

124259

200

AN3-5A

Purchased

No

Each

1,096.000

\*AN3-5A\*  
Bolt

\*\*

Location

Loc Qty

Loc Code

FP001

32

122800

32

GA

120

117423

120

ST350

22

120187

22

ST512

922

122416

122

124561

800

March-19-13 10:52:42 AM

Shop Packet Print

Page 7

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabelled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

# Picklist Print

March-19-13 10:52:42 AM

Work Order ID: 98641

\*98641\*

Parent Item: 646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3715 Manufactured No

Each 0.0000

\*646 3715\*

SMP

\*\*

Strut Doubler

MS27039-1-12

Purchased No

Each 235.0000

\*MS27039-1-12\*

Screw

\*\*

SMP

Location

Loc Qty

Loc Code

Mezz

235

100993

235

Each

0.0000

646.3716

Manufactured No

\*646 3716\*

SMP

\*\*

Gauge Bracket

MS20426AD5-7

Purchased No

Each 865.0000

\*MS20426AD5-7\*

Rivet

\*\*

SMP

Location

Loc Qty

Loc Code

ST334

865

101340

865

Each

95.0000

MS24694-S54

Purchased No

\*MS24694-S54\*

Screw

\*\*

SMP

Location

Loc Qty

Loc Code

ST303

95

123900

20

124859

75

BS333F L  
JB  
100993  
M1200F3L  
JB  
101340  
JB  
123900  
13-03-20

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

☐ Ovalized  
☐ Over/Under tolerance  
☐ Part Incorrect  
☐ Part Lost/Missing  
☐ Part Moved  
☐ Positioned Wrong  
☐ Power Loss/Surge

☐ Pressure/Forced  
☐ Temperature/Cure  
☐ Weld  
☐ Wrong Stock Pulled  
☐ Other

# Picklist Print

March-19-13 10:52:42 AM

Page 9

Work Order ID: 98641

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

\*98641\*

\*646 4001\*

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-21

Purchased

No

Each

387.0000

\*MS27039-1-21\*

SCREW

\*\*

4

20

8

SM

Location

Loc Qty

Loc Code

ST306

87

115935

87

115935

ST506

300

124326

300

MS27039-1-20

Purchased

No

Each

500.0000

\*MS27039-1-20\*

Screw

\*\*

2

20

8

SM

Location

Loc Qty

Loc Code

st510

500

124326

500

124326

MS27039-1-19

Purchased

No

Each

1,102.000

\*MS27039-1-19\*

Screw

\*\*

22

20

8

SM

Location

Loc Qty

Loc Code

ST306

102

122814

2

123522

100

ST506

1000

124326

1000

124326

646.3717

Manufactured

No

Each

10.0000

\*646.3717\*

Doubler

\*\*

1

20

13-03-20

SM

Location

Loc Qty

Loc Code

ST139A

10

93171

10

93171

March-19-13 10:52:42 AM

Shop Packet Print

Page 9

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabelled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

# Picklist Print

March-19-13 10:52:42 AM

Page 10

Work Order ID: 98641

\*98641\*

Parent Item: 646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3718

\*646 3718\*

Custom Washer

646.3719

\*646 3719\*

Doubler

Manufactured No

Manufactured No

Each 0.0000

Each 20.0000

\*\*

\*\*

Handwritten notes and signatures: m120083, JB, and a signature.

MS27039-1-10

\*MS27039-1-10\*

Screw

Purchased No

Each 359.0000

\*\*

Handwritten notes and signatures: 93289, JB, 12-03-20, and a signature.

Location

Loc Qty

Loc Code

ST139B

20

93289

20

Location

Loc Qty

Loc Code

GA

100

120449

100

ST305

101

122815

1

124859

100

ST308

18

123522

18

ST506

140

124326

140

Handwritten note: 124326

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



# Picklist Print

March-19-13 10:52:42 AM

Page 11

Work Order ID: 98641

\*98641\*

Parent Item: 646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-11A

Purchased

No

Each

792.0000

\*AN3-11A\*  
Bolt

\*\*

81 JB 13-03-20  
[Signature]

Location

Loc Qty

Loc Code

ST351

192

110865

42

123525

150

123525

ST512

600

115457

100

123352

200

123759

300

Shp

600.0990

Purchased

No

Each

0.0000

\*600-0990\* Shp

\*\*

Magnabond 6398 Part A (One 4 oz can)

600.0991

Purchased

No

Each

0.0000

\*600-0991\* Shp

\*\*

Magnabond 6398 Part B (One 4 oz can)

600.1012

Purchased

No

Each

0.0000

\*600-1012\* Shp

\*\*

Sealant (One 6 oz Semkit)

600.0129

Purchased

No

Each

0.0000

\*600-0129\* Shp

\*\*

VHB Tape

600.1013

Purchased

No

Each

0.0000

\*600-1013\* Shp

\*\*

Primer

① M/20057 [Signature]  
① M/20057 [Signature]  
① 125001 [Signature]  
⑧ 125037 [Signature]  
⑤ M/25154 10/13/12 [Signature]

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

# Picklist Print

March-19-13 10:52:42 AM

Page 12

Work Order ID: 98641

\*98641\*

Parent Item: 646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3910

Manufactured No

Each

90.0000

~~\*646 3910\*~~

Shim

\*\*

Location

Loc Qty

Loc Code

ST139d

90

93238

90

Each

29.0000

646.3911

Manufactured No

~~\*646 3911\*~~

Shim

\*\*

Location

Loc Qty

Loc Code

ST139d

29

93362

29

Each

91.0000

646.3912

Manufactured No

~~\*646 3912\*~~

Shim

\*\*

Location

Loc Qty

Loc Code

ST139d

91

93423

91

Each

30.0000

646.3913

Manufactured No

~~\*646 3913\*~~

Shim

\*\*

Location

Loc Qty

Loc Code

ST139d

30

93160

30

4  
JB  
SL

93238  
JB  
SL

93362  
JB  
SL

93423  
JB  
13-03-20  
SL

93160  
SL

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

# Picklist Print

March-19-13 10:52:42 AM

Page 13

Work Order ID: 98641

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

\*98641\*

\*646 4001\*

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

Each

151.0000

**\*AN3-12A\***

Bolt

\*\*

23

JB

2

Location

Loc Qty

Loc Code

GA

6

122407

6

ST351

45

114536

1

123352

44

ST512

100

123759

100

123759

MS27039-1-16

Purchased

No

Each

106.0000

**\*MS27039-1-16\***

Screw

\*\*

2

JB

13-03-20

Location

Loc Qty

Loc Code

ST306

106

121444

6

122993

100

121444

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO 03079

SHEET 1 JF 1

DWG NO. 646.4000

REV: A

PREPARED BY: N.CAP

DATE: 03/21/11

EFFECT ON DWG  
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY: ENGR *R. Bravo*

MFG *David B. Baker*

QC *Thomas J. Jones*


EFF: NEXT ORDER

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

SHEET 1, BOM, IS:

98641 MLC  
13-03-19

REF	REF	REF	65	647.5701	GPS MOUNT KIT			
		6	64	601.3151	VASHER	NS2469433P		
			63	601.2911	SCREW	NS2469433S		
	2	2	62	601.2637	SCREW	NS27809-1-16		
	2	2	61	601.2763	BOLT	AW-12A		
	1	1	60	646.3913	SHIM			
	4	4	59	646.3912	SHIM			
	1	1	58	646.3911	SHIM			
	4	4	57	646.3910	SHIM			
	5	5	56	600.1013	PRIMER			
	8 FT	8 FT	55	600.0129	VHB TAPE			
	1	1	54	600.1012	SEALANT	PR-1403 CLASS B		
AM4	AM3	AM2	AM1	FIND #	PART #	DESCRIPTION	MATL	SPEC.

	1	1	53	600.0991	MACROBOND 6398 PART B			
		1	52	600.0990	MACROBOND 6398 PART A			
	8	8	51	601.2826	BOLT	AW-11A		
		2	50	646.3814	VIPER BRACKET			
		12	49	601.2910	SCREW	NS27809-1-18		
2		2	48	601.1365	SCREW	NS27809-1-18		
2		2	47	646.3719	DOUBLER			
	2	2	46	646.3718	CUSTOM WASHER			
1		1	45	646.3717	DOUBLER			
	22	2	44	601.1948	SCREW	NS27809-1-19		
	2	2	43	601.1952	SCREW	NS27809-1-21		
	4	4	42	601.1956	SCREW	NS27809-1-21		
	2	2	41	601.2825	SCREW	NS2469433A		
	2	2	40	601.2831	RIVET	NS2469433-7		
	1	1	39	646.3716	GAUGE BRACKET			
	6	6	38	601.1953	SCREW	NS27809-1-12		
2		2	37	646.3715	STRUT DOUBLER			
	2	2	36	601.2824	BOLT	AW-5A		
36		36	35	601.2277	RIVET	CS26433-3-42		
18		18	34	600.0795	NUTPLATE	NS2347-3		
3		3	33	601.2565	RIVET	NS2478435-7		
1		1	32	646.3813	STRUT BRACKET			
4		4	31	601.2822	BOLT	AW-3A		
2		2	30	646.3812	GUSSET BRACKET			
8		8	29	601.2564	RIVET	NS2478435-6		
1		1	28	646.3714	GUSSET			
	1	1	27	646.3610	FILLER			
	2	2	26	601.2830	SCREW	NS2469433S		
		2	25	601.2825	BOLT	AW-6A		
		1	24	646.3811	RADIUS BLOCK			
		1	23	646.3712	CLIP			
	1	1	22	646.3711	CLIP			
8		8	21	601.2832	RIVET	NS2478435-5		
14		14	20	601.2020	RIVET	CS2213-5-3		
10		10	19	601.2823	BOLT	AW-4A		
	1	1	18	601.2827	BOLT	AW-13A		
	5	5	17	601.2912	SCREW	NS2469433L		
		1	16	646.3713	GUSSET			
		1	15	646.3210	SUPPORT			
		1	14	646.3710	DOUBLER			
	1	1	13	646.3110	CHANNEL			
8	55	6	63	12	601.1624	LOCKNUT	NS2442L3	
18	116	16	134	11	601.1607	VASHER	NS2449433P	
			10	646.3411	RH VIPER DEFLECTOR			
			9	646.3410	LH VIPER DEFLECTOR			
			8	646.3513	STRUT			
			7	646.3512	STRUT			
			6	646.3511	STRUT			
			5	646.3510	STRUT			
2		2	4	646.3810	BRACKET			
	1	1	3	646.2910	DEFLECTOR			
	1	1	2	646.3001	LOWER CUTTER ASSY			
	1	1	1	646.3301	UPPER CUTTER ASSY			
X					646.4004	FIXED PROVISIONS KIT		
	X				646.4003	FIXED CUTTER KIT		
					646.4002	FIXED VASHER		
					646.4001	AS350 CABLE CUTTERS KIT		
AM4	AM3	AM2	AM1	FIND #	PART #	DESCRIPTION	MATL	SPEC.

DOCUMENTS EFFECTED:

☒ MDL ☒ INSTALL INSTRU ☒ ICA ☒ BOM

CHANGE CATEGORY  
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED  
☐ YES ☒ NO

98641

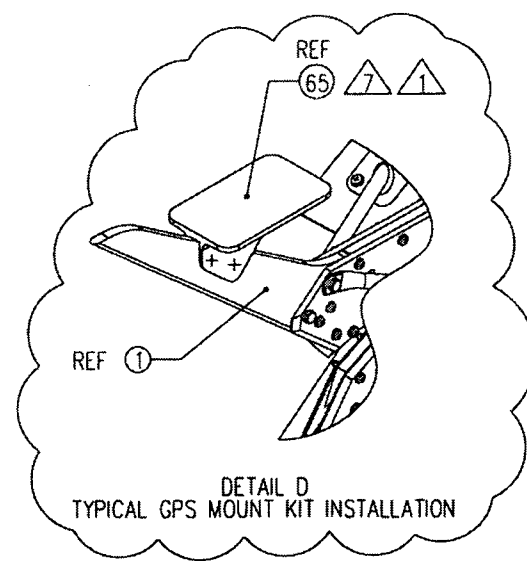
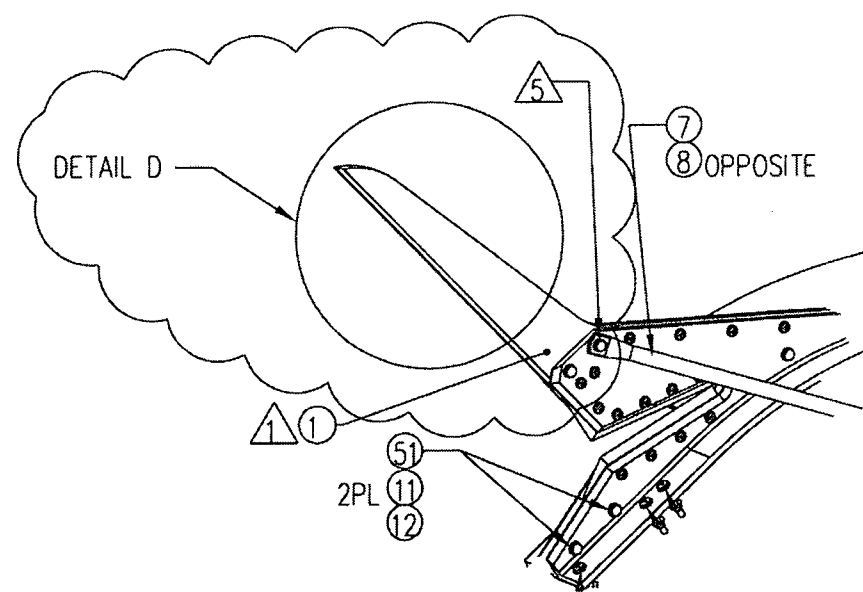
APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03046				SHEET 1 OF 1	
	DWG NO. 646.4000	REV: A	PREPARED BY J. JACKSON	DATE: 01/24/11	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: AS350 CABLE CUTTERS KIT					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>		EFF: NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED GPS MOUNT KIT, F/N 65. REVISED DRAWING VIEWS. ADDED NOTE <i>[7]</i>				

SHEET 1, ZONE B1 IS:

*[7]* AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A4 IS:

SHEET 2, ZONE B2 IS:



65	A	647.5701	REF	GPS MOUNT KIT	<i>[7]</i>	
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED
<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM					<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO



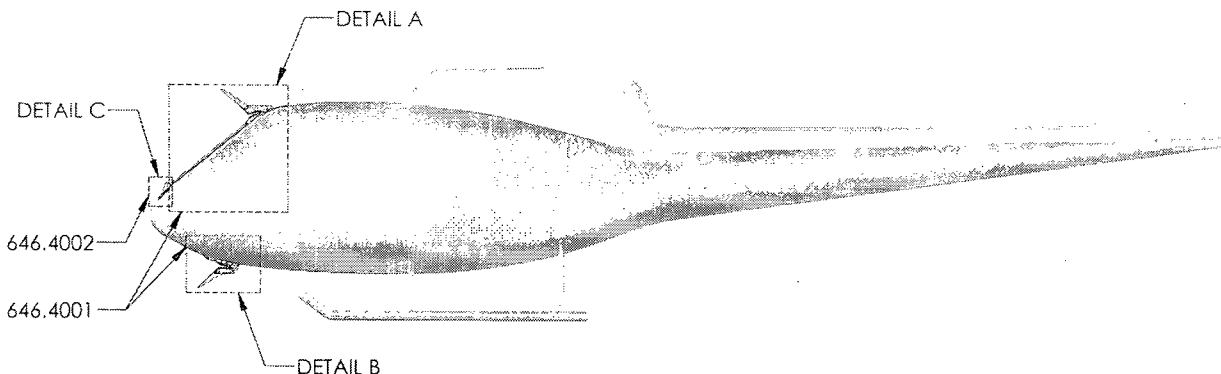
98641

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR: MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE  
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT

ED ECN(S)

03046, 03079



QTY	FIND #	PART #	DESCRIPTION	PARTL	SPEC.
6	64	601.3151	WASHER	MS21440NDP	
2	63	601.2911	SCREW	MS24464S53	
2	62	601.2637	SCREW	MS24209-1-16	
2	61	601.2763	BOLT	ANSI 12A	
1	60	646.3913	SHIM		
4	59	646.3912	SHIM		
1	58	646.3911	SHIM		

QTY	FIND #	PART #	DESCRIPTION	PARTL	SPEC.
1	57	646.3910	CHINA		
1	56	601.1012	PRIMER		
1	55	601.0129	VHB TAPE		
1	54	601.1012	SEALANT		
1	53	601.0991	MACHINED BRACKET PART A		
1	52	601.0990	MACHINED BRACKET PART B		
1	51	601.2826	BOLT	ANSI 12A	
2	50	646.3814	WIPER BRACKET		
2	49	601.2910	SCREW	MS24209-1-16	
2	48	601.1365	SCREW	MS24209-1-16	
2	47	646.3719	DOUBLER		
2	46	646.3715	CUSTOM WASHER		
1	45	646.3717	DOUBLER		
2	44	601.1948	DOUBLER	MS21029-1-19	
2	43	601.1956	SCREW	MS21029-1-19	
4	42	601.1956	SCREW	MS21029-1-19	
2	41	601.2829	SCREW	MS21029-1-19	
2	40	601.2831	RIVET	MS20474A5-7	
1	39	646.3716	GAUGE BRACKET		
6	38	601.1953	SCREW	MS21029-1-19	
2	37	646.3715	STRUT DOUBLER		
2	36	601.2824	BOLT	ANSI 12A	
36	35	601.2777	RIVET	MS20474A5-7	
18	34	601.0795	NUPLATE	MS21047-3	
3	33	601.2565	RIVET	MS20474A5-7	
1	32	646.3813	STUT BRACKET		
4	31	601.2822	BOLT	ANSI 12A	
2	30	646.3812	GUSSET BRACKET		
8	29	601.2564	RIVET	MS20474A5-7	
1	28	646.3714	GUSSET		
1	27	646.3610	FILLET		
1	26	601.2830	SCREW	MS21047-555	
2	25	601.2825	BOLT	ANSI 12A	
1	24	646.3811	RADIUS BLOCK		
1	23	646.3712	CLIP		
1	22	646.3711	CLIP		
8	21	601.2832	RIVET	MS20474A5-7	
14	20	601.2020	RIVET	CP3715-5-3	
10	19	601.2823	BOLT	ANSI 12A	
1	18	601.2827	BOLT	ANSI 12A	
5	17	601.2912	SCREW	MS24464S51	
1	16	646.3713	GUSSET		
1	15	646.3210	SUPPORT		
1	14	646.3710	DOUBLER		
1	13	646.3110	CHANNEL		
6	63	12	601.1624	LOCKNUT	MS21047-3
16	134	11	601.1607	WASHER	MS21440NDP
1	10	646.3411	RH WIPER DEFLECTOR		
1	9	646.3410	LH WIPER DEFLECTOR		
1	8	646.3513	STRUT		
1	7	646.3512	STRUT		
1	6	646.3511	STRUT		
1	5	646.3510	STRUT		
2	4	646.3810	BRACKET		
1	3	646.2710	DEFLECTOR		
1	2	646.3301	LOWER CUTTER ASSY		
1	1	646.3301	UPPER CUTTER ASSY		
1	1	646.4002	AS350 WIPER DEFLECTOR KIT		
1	1	646.4001	AS350 CABLE CUTTERS KIT		

QTY

NEXT ASSY (S)

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

DATE: 07/12/16

SCALE: 1/16" = 1"

SHEET 1 OF 4

A

B

C



CANCEL DATE CANCEL BY DRAWS BY DESIGNED BY CHECKED BY APPROVED BY P. FRAYO	05-27-05 05-27-05 P. FRAYO P. FRAYO P. FRAYO P. FRAYO P. FRAYO	<b>APICAL INDUSTRIES</b> 2608 TEMPLE HEIGHTS DR. CCEANSIDE, CA. 92036-3512 (760) 7274-5300
CONTRACT NO.		<b>AS350 CABLE CUTTERS KIT</b>
THREE DOWNS PAID SPECIALS CONTRACT PRICE CONTRACT PRICE CONTRACT PRICE CONTRACT PRICE CONTRACT PRICE	07/02/06 07/02/06 07/02/06 07/02/06 07/02/06	646,4000 646,4000 646,4000 646,4000 646,4000
SCALE: NONE		SHEET 2 OF 4

14PL(20) 15 8PL(2) 4PL(2) 19PL(4) 11PL(8) 12PL(4) 24 2PL(25) 4PL(11) 2PL(12) 2PL(11) 2PL(12) 13 18 51 6PL 11 12PL 12 6PL 29 4PL 17 5PL 11 5PL 12 5PL 36 2PL 11 2PL 35 4PL 34 2PL 19 2PL 11 2PL 35 4PL 34 2PL 6 5 32 33 3PL 16 28 19 2PL 11 2PL 35 4PL 34 2PL 2 2PL(11) 12 6PL 26 11 12 22 23 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

DETAIL B  
LH SIDE SHOWN WITH AIRFRAME

SECTION C-C

SECTION D-D  
CUTTER HIDDEN FOR CLARITY

SECTION E-E

ORIGINAL DATE 08-27-08	DESIGNED BY C. H. H. H.	DATE 08-27-08
DRAWN BY S. H. H. H.	CHECKED BY P. H. H. H.	DATE 08-27-08
APPROVED BY P. H. H. H.		
CONTRACT NO.		
ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACES DECIMALS ±.01 3 PLACES DECIMALS ±.005 ANGLES ±.2°		
SEE B	SCALE NONE	DWG. NO. 646.4000 SHEET 3 OF 4

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

ORIGINAL DATE BAC-DA-181 08-27-68	APICAL INDUSTRIES		
EXPIRATION DATE 12-10-67	2628 TEMPLE HEIGHTS DR.		
1. NAME P. BRAVO	OCEANSIDE, CA. 92056-3512 (760)724-5300		
2. DRAWING APPROVAL P. BRAVO 08-29-68	A3530 CABLE CUTTERS KIT		
3. CONTACT NO.			
4. UNITS SHOWN SPECIFIED DRAWINGS ARE 18 INCHES CABLE CUTTERS ARE 2 PLACE CUTTERS 101 3 PLACE CUTTERS 1205 ANALYSIS	SEE CAGE CODE 07M12	DWG. NO. 646.4000	REV A
	SCALE NONE	SHEET 3 OF 4	

ORDER DATE INVOICE DATE QUANTITY PRICE SPECIALS APPROVAL BY SALES CONTRACT NO.	08-26-90 08-27-90 1 HUB 1 BRACK       	<b>APICAL INDUSTRIES</b> 2605 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
<h2 style="text-align: center;">A3530 CABLE CUTTERS KIT</h2>		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE FINISHES TOLERANCES ARE: FRACTIONS ± .01 DECIMALS ± .005 ANGLES ± 5°	P/N    QTY    CASE CODE    DATED M/D    PRICE    REVISION  8    1    07RM26             646.4000    A  SCALE NONE	SHEET 4 OF 4

# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 03079

SHEET 1 OF 1

DWG NO. 646.4000

REV: A

PREPARED BY: N.CAP

DATE: 03/21/11

EFFECT ON DWG  
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY: ENGR *[Signature]*

MFG *[Signature]*

QC *[Signature]*

EFF: NEXT ORDER


TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

SHEET 1, BOM, IS:

REFERENCE ONLY

SMO

REF	REF	REF	65	647.5701	GPS MOUNT KIT			
			64	601.3151	WASHER	NS2477623P		
			63	601.2911	SCREW	NS2469453S		
2		-2	62	601.2637	SCREW	NS27039-1-16		
2		2	61	601.2763	BOLT	AWC-12A		
1		1	60	646.3913	SHIM			
4		1.4	59	646.3912	SHIM			
1		1.1	58	646.3911	SHIM			
4		4	57	646.3910	SHIM			
5		5	56	600.1013	PRIMER			
8 FT		8 FT	55	600.1029	VHB TAPE			
1		1	54	600.1012	SEALANT	FR-1425 CLASS 3		
AB04	AB03	AB02	AB01	FIND #	PART #	DESCRIPTION	MATL	SPEC.

1	1	53	600.0991	HAGBOMB 6398 PART B				
1	1	52	600.0990	HAGBOMB 6398 PART A				
8	1.8	51	601.2825	BOLT	AWC-1A			
	2	50	646.3814	WIPER BRACKET				
	12	49	601.2910	SCREW	NS27039-1-18			
2	2	48	601.1365	SCREW	NS27039-1-18			
2	2	47	646.3719	DOUBLER				
	2	46	646.3718	CUSTOM WASHER				
1	1	45	646.3717	DOUBLER				
22	2	44	601.1948	SCREW	NS27039-1-19			
2	2	43	601.1952	SCREW	NS27039-1-20			
4	4	42	601.1956	SCREW	NS27039-1-21			
2	2	41	601.2829	SCREW	NS2469453A			
2	2	40	601.2831	RIVET	NS2469453-7			
1	1	39	646.3716	GAUGE BRACKET				
6	6	38	601.1953	SCREW	NS27039-1-12			
2	2	37	646.3715	STRUT DOUBLER				
2	2	36	601.2824	BOLT	AWC-3A			
36	36	35	601.2277	RIVET	CONRAD-3-42			
18	18	34	600.0795	NUTPLATE	NS2469453			
3	3	33	601.2565	RIVET	NS2477623-7			
1	1	32	646.3813	STRUT BRACKET				
4	4	31	601.2822	BOLT	AWC-3B			
2	2	30	646.3812	GUSSET BRACKET				
8	8	29	601.2564	RIVET	NS2477623-6			
1	1	28	646.3714	GUSSET				
	1	27	646.3610	FILLER				
	2	26	601.2830	SCREW	NS2469453S			
	2	25	601.2825	BOLT	AWC-6A			
	1	24	646.3811	RADIUS BLOCK				
	1	23	646.3712	CLIP				
	1	22	646.3711	CLIP				
8	8	21	601.2832	RIVET	NS2477623-5			
14	14	20	601.2820	RIVET	CONRAD-5-3			
10	10	19	601.2823	BOLT	AWC-6A			
	5	18	601.2827	BOLT	AWC-13A			
	1	17	601.2912	SCREW	NS2469453S			
	1	16	646.3713	GUSSET				
	1	15	646.3210	SUPPORT				
	1	14	646.3710	DOUBLER				
	1	13	646.3110	CHANNEL				
8	55	12	601.1624	LOCKWIT	NS2469453			
18	116	11	601.1607	WASHER	NS2477623P			
		10	646.3411	RH WIPER DEFLECTOR				
		9	646.3410	LH WIPER DEFLECTOR				
		8	646.3513	STRUT				
		7	646.3512	STRUT				
		6	646.3511	STRUT				
		5	646.3510	STRUT				
2	2	4	646.3810	BRACKET				
		3	646.2910	DEFLECTOR				
		2	646.3001	LOWER CUTTER ASSY				
		1	646.3301	UPPER CUTTER ASSY				
X	X		646.4004	FIXED PROVISIONS KIT				
	X		646.4003	DOCK CARRIER KIT				
	X		646.4002	AS350 WIPER DEFLECTION KIT				
	X		646.4001	AS350 CABLE CUTTERS KIT				
AB4	AB3	AB2	AB1	FIND #	PART #	DESCRIPTION	MATL	SPEC.

DOCUMENTS EFFECTED:

☒ MDL ☒ INSTALL INSTRU ☒ ICA ☒ BOM

CHANGE CATEGORY  
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED  
☐ YES ☒ NO

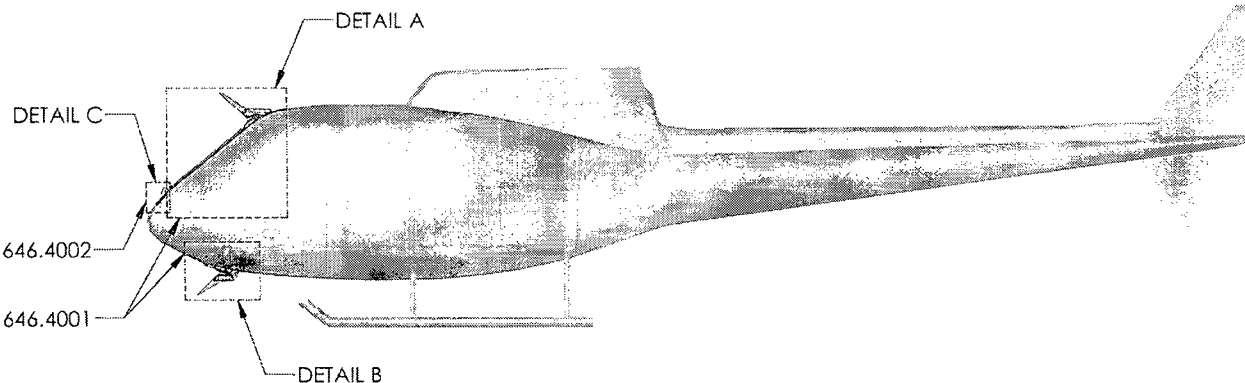
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

# NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE  
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT

REFERENCE ONLY

Sm



QTY	QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
6	64	601.3151	WASHER	44-311-1502-0P		
2	63	601.2911	SCREW	MS20469-4303		
2	62	601.2637	SCREW	MS20469-1-7-5		
2	61	601.2763	BOLT	AN3-12A		
1	60	646.3913	SHIM			
4	59	646.3912	SHIM			
1	58	646.3911	SHIM			

UNLESS NOTED ECN(S)

03046, 03079

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 03079, 03046, 03079 & 03046	02/06/2010	P. BRAVO

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 03079, 03046, 03079 & 03046	02/06/2010	P. BRAVO
1	4 57 646.3910 SHIM		
1	5 56 600.1013 PRIMER		
1	6 FT 55 600.0129 VHB TAPE		
1	1 54 600.1012 SEALANT		
1	1 53 600.0991 MAGNABOND 639B PART B		
1	1 52 600.0990 MAGNABOND 639B PART A		
1	8 51 601.2826 BOLT		
2	50 646.3814 WIPER BRACKET		
2	49 601.2910 SCREW		
2	48 601.1365 SCREW		
2	47 646.3719 DOUBLER		
2	46 646.3718 CUSTOM WASHER		
1	45 646.3717 DOUBLER		
2	22 44 601.1948 SCREW		
2	43 40 601.1952 SCREW		
2	42 601.1956 SCREW		
2	41 601.2829 SCREW		
2	40 601.2831 RIVET		
1	39 646.3714 GAUGE BRACKET		
6	38 601.1953 SCREW		
2	37 646.3715 STRUT DOUBLER		
2	36 601.2824 BOLT		
36	35 601.2277 RIVET		
18	34 600.0795 NUTPLATE		
3	33 601.2565 RIVET		
1	32 646.3813 STRUT BRACKET		
4	31 601.2822 BOLT		
2	30 646.3812 GUSSET BRACKET		
8	29 601.2564 RIVET		
1	28 646.3714 GUSSET		
1	27 646.3610 FILLER		
1	26 601.2830 SCREW		
2	25 601.2825 BOLT		
1	24 646.3811 RADIUS BLOCK		
1	23 646.3712 CLIP		
1	22 646.3711 CLIP		
8	21 601.2832 RIVET		
14	20 601.2020 RIVET		
10	19 601.2823 BOLT		
1	18 601.2827 BOLT		
5	17 601.2912 SCREW		
1	16 646.3713 GUSSET		
1	15 646.3210 SUPPORT		
1	14 646.3710 DOUBLER		
1	13 646.3110 CHANNEL		
6	12 601.1624 LOCKNUT		
16	11 601.1607 WASHER		
1	10 646.3411 RH WIPER DEFLECTOR		
1	9 646.3410 LH WIPER DEFLECTOR		
1	8 646.3513 STRUT		
1	7 646.3512 STRUT		
1	6 646.3511 STRUT		
1	5 646.3510 STRUT		
2	4 646.3810 BRACKET		
1	3 646.2910 DEFLECTOR		
1	2 646.3001 LOWER CUTTER ASSY		
1	1 646.3301 UPPER CUTTER ASSY		
1	1 646.4002 AS350 WIPER DEFLECTOR KIT		
1	1 646.4001 AS350 CABLE CUTTERS KIT		

QTY	QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
1	134	11	601.1607	WASHER	44-311-1502-0P	
1	10	10	646.3411	RH WIPER DEFLECTOR		
1	9	9	646.3410	LH WIPER DEFLECTOR		
1	8	8	646.3513	STRUT		
1	7	7	646.3512	STRUT		
1	6	6	646.3511	STRUT		
1	5	5	646.3510	STRUT		
2	4	4	646.3810	BRACKET		
1	3	3	646.2910	DEFLECTOR		
1	2	2	646.3001	LOWER CUTTER ASSY		
1	1	1	646.3301	UPPER CUTTER ASSY		
1	1	1	646.4002	AS350 WIPER DEFLECTOR KIT		
1	1	1	646.4001	AS350 CABLE CUTTERS KIT		

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1. Approving National Aviation  
Authority/Country:

FAA/UNITED STATES

2.

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: Page 1 of 3

MG13-078

4. Organization Name and Address:

Apical Industries, Inc.  
2608 Temple Heights Drive  
Oceanside, CA 92056

PQ1886NM

5. Work Order/Contract/Invoice Number:

Shipper # 12443  
P.O. # AS350-CCK/0019331

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1.	Upper Cutter Assy	646.3301	N/A	16	119640-3	New
2.	Lower Cutter Assy	646.3001		20	119737-1	
3.	Deflector	646.2910		17	119572-1	
4.	Doubler	646.3710		2	113434-1	
5.	Strut Doubler	646.3715		2	114916-7	
6.	Gusset	646.3714		2	113434-3	
7.	Doubler	646.3715		2	113434-4	
8.	Shim	646.3911		2	113080-5	
9.	Gusset	646.3713		3	113434-2	
10.	Bracket	646.3810		6	113012-4	
11.	Support	646.3210		4	114263-3	
12.	Gusset Bracket	646.3812		8	113579-1	
13.	Strut Bracket	646.3813		5	112165-3	
14.	Shim	646.3910		26	114916-5	
15.	Shim	646.3912		26	114916-6	
16.	Channel	646.3110		7	118257-8	

13. Remarks: EXPORT AIRWORTHINESS APPROVAL

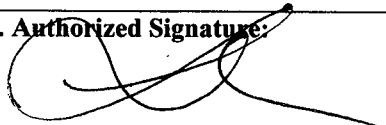
- A. These parts listed in Block 7. are subcomponents of a PMA Article
- B. Bilateral Agreement - None
- C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada.
- D. Last item entered.....

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 13.

15. Authorized Signature:



16. Approved/Authorization No.:

DMIR 606259-NM

17. Name (Typed or Printed):

Lisa Mansfield

18. Date (m/d/y):

March 18, 2013

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation  
Authority/Country:

FAA/UNITED STATES

2.

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: Page 2 of 3

MG13-078

4. Organization Name and Address:

Apical Industries, Inc.  
2608 Temple Heights Drive  
Oceanside, CA 92056

PQ1886NM

5. Work Order/Contract/Invoice Number:

Shipper # 12443

P.O. # AS350-CCK/0019331

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
17.	Strut	646.3512	N/A	12	111971-3	New
18.	Doubler	646.3719		24	117341-6	
19.	<del>Strut</del>	<del>646.3510</del>		<del>14</del>	<del>117341-2</del>	
20.	Strut	646.3511		14	117341-3	
21.	Clip	646.3711		13	117341-1	
22.	Clip	646.3712		13	117341-4	
23.	Custom Washer	646.3718		27	117341-5	
24.	Gauge Bracket	646.3716		15	117953-1	
25.	Filler	646.3610		17	115914-2	
26.	Shim	646.3913		17	117953-2	
27.	Radius Block	646.3811		20	117651-1	
28.	Strut	646.3513		35	11971-1, 115105-1, 115741-3	
29.	Bolt	601.2825		192	107245-1, 119183-2	
30.	Bolt	601.2827		69	106824-1, 114455-1	
31.	Bolt	601.2763		206	41764-3, 46468-1	
32.	Screw	601.2830		149	41769-8, 107245-8	

13. Remarks: EXPORT AIRWORTHINESS APPROVAL

- A. These parts listed in Block 7. are subcomponents of a PMA Article
- B. Bilateral Agreement - None
- C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada.
- D. Last item entered.....

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 13.

15. Authorized Signature:

16. Approved/Authorization No.:

DMIR 606259-NM

17. Name (Typed or Printed):

18. Date (m/d/y):

Lisa Mansfield

March 18, 2013

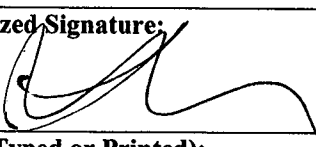
## User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



1. Approving National Aviation Authority/Country: <b>FAA/UNITED STATES</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG</b>				3. Form Tracking Number: <b>Page 3 of 3</b> <b>MG13-078</b>	
4. Organization Name and Address: <b>Apical Industries, Inc.</b> <b>2608 Temple Heights Drive</b> <b>Oceanside, CA 92056</b>						5. Work Order/Contract/Invoice Number: <b>Shipper # 12443</b> <b>P.O. # AS350-CCK / 0019331</b>	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
33.	Rivet	601.2831	N/A	604	76557-10, 107245-7, 115478-4	New	
34.	LH Wiper Deflector	646.3410		15	110777-1		
35.	AS350 Wiper deflector Kit	646.4002		4	031, 032, 033, 034		
36.	RH Wiper Deflector	646.3411		16	118480-1		
37.	Wiper Bracket	646.3814		45	107056-3, 116390-2		
13. Remarks: <b>EXPORT AIRWORTHINESS APPROVAL</b>  <b>A. These parts listed in Block 7. are subcomponents of a PMA Article</b> <b>B. Bilateral Agreement – None</b> <b>C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada.</b> <b>D. Last item entered.....</b>							
14. Certifies the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation  <input type="checkbox"/> Non-approved design data specified in Block 13.							
15. Authorized Signature: 		16. Approved/Authorization No.:  <b>DMIR 606259-NM</b>					
17. Name (Typed or Printed):  <b>Lisa Mansfield</b>		18. Date (m/d/y):  <b>March 18, 2013</b>					
<b>User/Installer Responsibilities</b>							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.  Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.  Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							